

ABSTRACT

When non-audible murmurs are to be obtained with maximum possible fidelity, the attenuation of the high frequency region attributable to mismatching of acoustic impedance on the interface between the skin surface over soft tissues in the body, which are mainly liquid, and the air space, which is gaseous, is restrained. The attenuation of the high frequency region attributable to mismatching of acoustic impedance can be restrained by installing a microphone on a surface of the skin immediately below the mastoid of a human, and sampling with condenser microphone portion via hardened silicone rubber or the like muscle-conducted vibrations of non-audible respiratory sounds articulated along with motions (motions of the mouth) not involving regular vibrations of the vocal cords.